



**TAS 201, TAS 202 and TAS 203
TEST REPORT**

Rendered to:

EFCO, A PELLA COMPANY

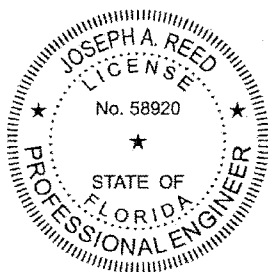
SERIES/MODEL: 6621

PRODUCT TYPE: Thermally Improved Aluminum Fixed Over Fixed Window

This report contains in its entirety:

**Cover Page: 1 page
Report Body: 13 pages
Test Equipment: 1 page
Sketch: 1 page
Drawings: 10 pages**

Secure Electronic Seal
for Electronic Submittal



Joseph A. Reed
Digitally Signed by: Joseph A. Reed

Date: 2010.05.05 16:25:37 -04'00'

Report No.: A0035.03-801-18

Test Dates: 04/13/10

Through: 04/29/10

Report Date: 05/05/10

Expiration Date: 04/29/20

2865 Market Loop, Suite B
Southlake, Texas 76092
phone: 817-410-7202
fax: 817-424-8463
www.archtest.com



TAS 201, TAS 202 and TAS 203 TEST REPORT

Rendered to:

EFCO, A PELLA COMPANY
1000 County Road
Monett, Missouri 65708

Report No.: A0035.03-801-18
Test Dates: 04/13/10
Through: 04/29/10
Report Date: 05/05/10
Expiration Date: 04/29/20

Project Summary: Architectural Testing, Inc. was contracted by EFCO, a Pella Company to perform testing per Florida Building Code, Test Protocols for High Velocity Hurricane Zone, Protocols TAS 201-94, TAS 202-94 and TAS 203-94 on four Series/Model 6621, thermally improved aluminum fixed over fixed windows. Test Specimens tested met the performance requirements set forth in the protocols for a +80.0/-80.0 psf *Design Pressure* rating. Test specimen description and results are reported herein. The samples were provided by the client.

Test Procedures: The test specimens were evaluated in accordance with the following:

TAS 201-94, *Impact Test Procedures.*

TAS 202-94, *Criteria for Testing Impact and Non Impact Resistant Building Envelope Components Using Uniform Static Air Pressure Loading.*

TAS 203-94, *Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.*

Drawing Reference: The test specimen drawings have been reviewed and verified by Architectural Testing and are representative of the samples tested.

Test Specimen Description:

Series/Model: 6621

Product Type: Thermally Improved Aluminum Fixed Over Fixed Window

Overall Size: 66" wide by 134-1/2" high

Rough Opening Size: 66-1/2" wide by 135" high

Daylight Opening Size (Top): 59-1/2" wide by 76" high

Daylight Opening Size (Bottom): 59-1/2" wide by 46-1/2" high

Overall Area: 61.65 ft²

Finish: Mill finish aluminum

Glazing Details: Units were glazed using laminated spandrel glass with an overall thickness of 9/16". The glass consisted of 0.090" thick Saflex® PVB interlayer with one piece of 1/4" thick heat strengthened glass on each side. Units were interior glazed against a back bedding compound. An aluminum glazing bead with a row of vinyl bulb gasket was at the interior and secured with a sealant compound and #8 x 3/4" Phillips pan head self-tapping screws. Screws were located at 4" from interior corners and 11" on center thereafter. A snap-in aluminum glazing bead cover was located at the interior. All units were glazed with Bondaflex® SIL 295. Glazing bite on all units was 1".

Weatherstripping:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>	<u>Joinery</u>	<u>Retaining Method</u>	<u>Part #</u>	<u>Manufacturer</u>
0.187" x 0.250" vinyl bulb	1 Row	Interior of exterior sub-frame legs	Kerf	Staked	WA04	Central Plastics
0.187" x 0.250" vinyl bulb	1 Row	Glazing bead	Kerf	Staked	WA04	Central Plastics

Test Specimen Description (Continued):

Sub-Frame Construction: All sub-frame and retaining members were extruded aluminum members. The sub-frame members were thermally improved. Sub-frame corners at head and jambs were open. An aluminum end dam was located at each sill and jamb corner. A sealant compound was used to fasten frame members and end dam together. Sealant was also applied at interior sub-frame corner.

Frame Construction: All frame and retaining members were extruded aluminum members. The frame members were thermally improved. Frame corners were milled and mechanically assembled using two #8 x 1" pan head screws at each corner. Sealant was applied over screw heads, bosses, and corners. Frame was inserted into the sub-frame and secured using a sealant compound applied full perimeter at the exterior and at the sill and 8" up the jamb at the interior. The frame was fastened to the mullion with sealant applied to the underside of interior and exterior legs.

Mullion Construction: The mullion was formed from an extruded aluminum member. The mullion was inserted into the frame and secured to the exterior face with a sealant compound. A 3/16" thick aluminum clip was used to fasten the mullion through the sub-frame and to the buck. Eight 1/4" x 4" lag bolts were used to secure the clip to the buck. Four #12 x 1" hex head self-tapping screws were used to fasten the clip to the mullion. Mullion clips were located on top of each end of the mullion.

Hardware: No hardware was utilized.

Drainage:

<u>Description</u>	<u>Quantity</u>	<u>Location</u>
1/4" hole	1	6" from outer edge of jambs, at exterior face of sill

Reinforcement: No reinforcement was utilized.

Installation: The unit was installed through the sub-frame into a 2 x 10 Hem-Fir test buck. Lag bolts measuring 1/4" x 2" were used as fasteners and were located at 2" from outside corners at head and sill with the remaining at 10" on center spacing thereafter and at 6-1/2" from outside corners at jambs with the remaining at 10" on center spacing thereafter. A sealant compound was applied full perimeter at the exterior from sub-frame to buck.

Test Results: The following results have been recorded:

Protocol TAS 202-94, Static Air Pressure Tests

Design Pressure: +80.0/-80.0 psf

Title of Test	Results		
Air Infiltration			
1.57 psf (25 mph)	<0.01 cfm/ft ²		
6.24 psf (50 mph)	0.01 cfm/ft ²		
Structural Loads	Indicator Readings (inch)		
	#1	#2	#3
50% of Test Pressure (+60.0 psf)			
Maximum Deflection	0.14	0.21	0.13
Permanent Set	0.03	0.04	0.03
Design Pressure (+80.0 psf)			
Maximum Deflection	0.17	0.27	0.18
Permanent Set	0.04	0.05	0.04
50% of Test Pressure (-60.0 psf)			
Maximum Deflection	0.27	0.31	0.19
Permanent Set	0.05	0.05	0.05
Design Pressure (-80.0 psf)			
Maximum Deflection	0.36	0.40	0.25
Permanent Set	0.07	0.06	0.06
Water Infiltration			
15% Positive Design Pressure (+12.0 psf)	No Penetration		
Test Pressure (+120.0 psf)			
Maximum Deflection	0.28	0.37	0.23
Permanent Set	0.06	0.06	0.05
Test Pressure (-120.0 psf)			
Maximum Deflection	0.26	0.43	0.25
Permanent Set	0.07	0.08	0.08

Note: See Architectural Testing Sketch #1 for indicator locations.

Test Results: (Continued)

Protocol TAS 201-94, *Impact Test Procedures*

Missile Weight: 9.2 lbs

Muzzle Distance from Test Specimen: 17 ft.

Test Unit #1

Impact #1: Missile Velocity: 50.8 fps

Impact Area: Center of glass, top lite

Observations: No rupture, no penetration

Results: Pass

Impact #2: Missile Velocity: 50.5 fps

Impact Area: Top right corner of glass, top lite

Observations: No rupture, no penetration

Results: Pass

Note: Refer to Architectural Testing Sketch #1 for impact locations.

Test Results: (Continued)

Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #1

Design Pressure: +80.0/-80.0 psf

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
16 to 40	3500	2.60	0.06	0.14	0.10
0 to 48	300	2.99	0.07	0.15	0.11
40 to 64	600	2.21	0.09	0.16	0.12
24 to 80	100	2.99	0.10	0.18	0.14
			Permanent Set (inch)		
			0.04	0.03	0.03

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
24 to 80	50	1.79	0.21	0.25	0.19
40 to 64	1050	1.63	0.18	0.23	0.18
0 to 48	50	2.87	0.15	0.20	0.14
16 to 40	3350	2.13	0.12	0.17	0.12
			Permanent Set (inch)		
			0.05	0.05	0.04

Result: Pass

Note: Refer to Architectural Testing Sketch #1 for indicator locations.

Test Results: (Continued)

Protocol TAS 201-94, *Impact Test Procedures*

Missile Weight: 9.2 lbs

Muzzle Distance from Test Specimen: 17 ft.

Test Unit #2

Impact #1: Missile Velocity: 50.1 fps

Impact Area: Bottom left corner of glass, top lite

Observations: No rupture, no penetration

Results: Pass

Impact #2: Missile Velocity: 50.2 fps

Impact Area: Center of glass, top lite

Observations: No rupture, no penetration

Results: Pass

Note: Refer to Architectural Testing Sketch #1 for impact locations.

Test Results: (Continued)

Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #2

Design Pressure: +80.0/-80.0 psf

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
16 to 40	3500	1.83	0.04	0.12	0.08
0 to 48	300	2.68	0.04	0.13	0.08
40 to 64	600	1.85	0.06	0.17	0.11
24 to 80	100	2.72	0.08	0.21	0.13
			Permanent Set (inch)		
			0.03	0.02	0.02

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
24 to 80	50	2.93	0.19	0.35	0.31
40 to 64	1050	1.77	0.18	0.32	0.28
0 to 48	50	2.58	0.13	0.24	0.21
16 to 40	3350	2.15	0.11	0.22	0.19
			Permanent Set (inch)		
			0.06	0.08	0.07

Result: Pass

Note: Refer to Architectural Testing Sketch #1 for indicator locations.

Test Results: (Continued)

Protocol TAS 201-94, *Impact Test Procedures*

Missile Weight: 9.2 lbs

Muzzle Distance from Test Specimen: 17 ft.

Test Unit #3

Impact #1: Missile Velocity: 50.7 fps

Impact Area: Top right corner of glass, top lite

Observations: No rupture, no penetration

Results: Pass

Impact #2: Missile Velocity: 50.3 fps

Impact Area: Center of glass, top lite

Observations: No rupture, no penetration

Results: Pass

Impact #3: Missile Velocity: 50.5 fps

Impact Area: Midpoint of mullion

Observations: No rupture, no penetration

Results: Pass

Note: Refer to Architectural Testing Sketch #1 for impact locations.

Test Results: (Continued)

Protocol TAS 203-94, Cyclic Wind Pressure Loading

Test Unit #3

Design Pressure: +80.0/-80.0 psf

POSITIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
16 to 40	3500	1.78	0.12	0.17	0.11
0 to 48	300	2.39	0.12	0.19	0.11
40 to 64	600	2.11	0.15	0.24	0.12
24 to 80	100	2.76	0.18	0.28	0.15
			Permanent Set (inch)		
			0.06	0.04	0.05

NEGATIVE PRESSURE

Pressure Range (psf)	Number of Cycles	Average Cycle Time (seconds)	Maximum Deflection at Indicator (inch)		
			#1	#2	#3
24 to 80	50	2.96	0.22	0.28	0.19
40 to 64	1050	1.93	0.21	0.25	0.22
0 to 48	50	2.99	0.17	0.21	0.21
16 to 40	3350	2.60	0.15	0.22	0.16
			Permanent Set (inch)		
			0.07	0.07	0.05

Result: Pass

Note: Refer to Architectural Testing Sketch #1 for indicator locations.

Test Equipment:

Cannon: Steel pipe barrel utilizing compressed air to propel the missile

Missile: 2x4 Southern Pine

Timing Device: Electronic Beam Type

Cycling Mechanism: Computer controlled centrifugal blower with electronic pressure measuring device

Deflection Measuring Device: Linear transducers

Laboratory Compliance Statements: The following are provided as required by the protocols for the testing reported herein.

Upon completion of testing, specimens tested for TAS 201-94 met the requirements of Section 1626 of the Florida Building Code.

Upon completion of testing, specimens tested for TAS 202-94 met the requirements of Section 1620 of the Florida Building Code.

Upon completion of testing, specimens tested for TAS 203-94 met the requirements of Section 1626 of the Florida Building Code.

Tape and film were used to seal against air leakage during structural testing. In our opinion, the tape and film did not influence the results of the test.

Testing was conducted at the Architectural Testing, Inc. laboratory located in Southlake, Texas.

List of Official Observers:

<u>Name</u>	<u>Company</u>
Andy Cost	Architectural Testing, Inc.
Joseph A. Reed, P.E.	Architectural Testing, Inc.
Tom Klein	Architectural Testing, Inc.

Detailed drawings, data sheets, representative samples of test specimens, a copy of this report, or other pertinent project documentation will be retained by Architectural Testing, Inc. for a period of ten years from the original test date. At the end of this retention period, such materials shall be discarded without notice and the service life of this report will expire.

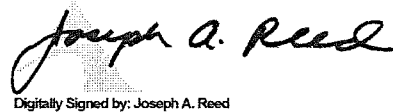
Results obtained are tested values and were secured by using the designated test methods. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. It is the exclusive property of the client so named herein and relates only to the specimens tested. This report may not be reproduced, except in full, without the written approval of Architectural Testing, Inc.

For ARCHITECTURAL TESTING, INC.



Digitally Signed by: Tom Klein

Tom Klein
Test Technician



Digitally Signed by: Joseph A. Reed

Joseph A. Reed, P.E.
Director – Engineering and Product Testing

TK:ac/cmd

Attachments (pages): This report is complete only when all attachments listed are included.

Appendix-A: Test Equipment (1)

Appendix-B: Sketch (1)

Appendix-C: Drawings (10)

Revision Log

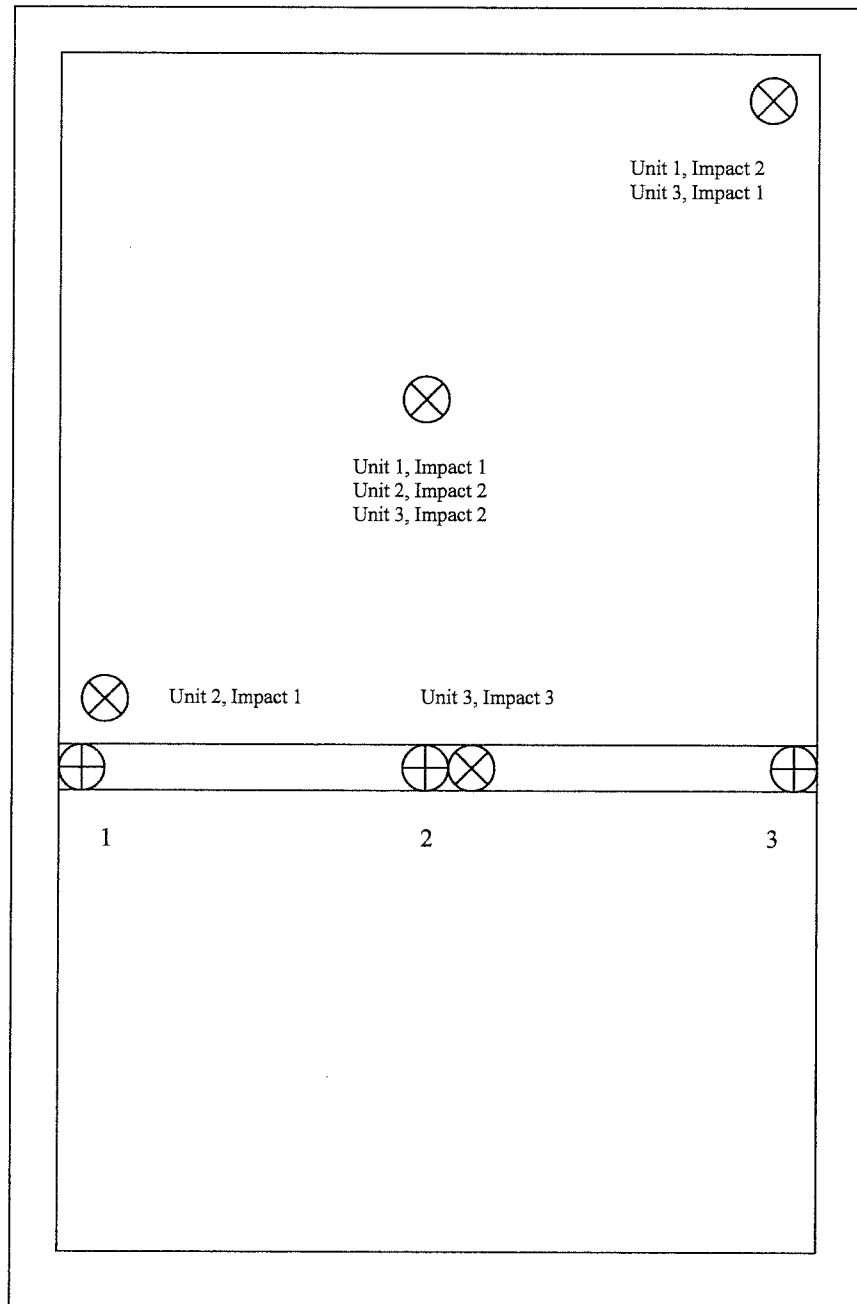
<u>Rev. #</u>	<u>Date</u>	<u>Page(s)</u>	<u>Revision(s)</u>
0	05/05/10	N/A	Original report issue.

Appendix A
Test Equipment

Instrument	Manufacturer	Asset #
Linear Transducer	Celesco	62196
Linear Transducer	Celesco	5203
Linear Transducer	Celesco	62660
Linear Transducer	Celesco	3274
Linear Transducer	Celesco	3273
Linear Transducer	Celesco	3546
Linear Transducer	Celesco	3269
Linear Transducer	Celesco	3756
Linear Transducer	Celesco	62194
Linear Transducer	Celesco	62195
Linear Transducer	Celesco	3272
Linear Transducer	Celesco	5202
Spray Rack	Architectural Testing, Inc.	3233
Micro Mule	Architectural Testing, Inc.	5302
Control Panel	Architectural Testing, Inc.	4168
Control Panel	Architectural Testing, Inc.	4829
Cannon	Architectural Testing, Inc.	5469

Appendix B

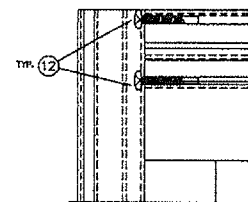
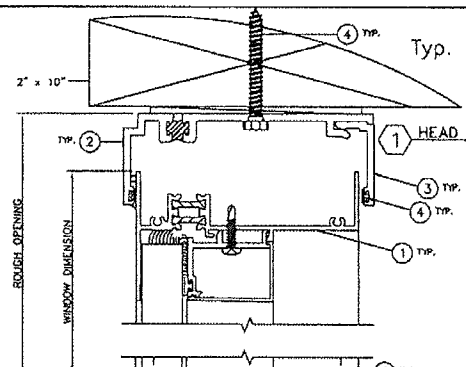
Sketch



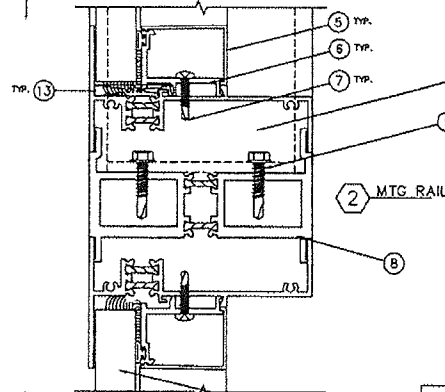
 = Linear Transducers  = Impacts

Appendix C

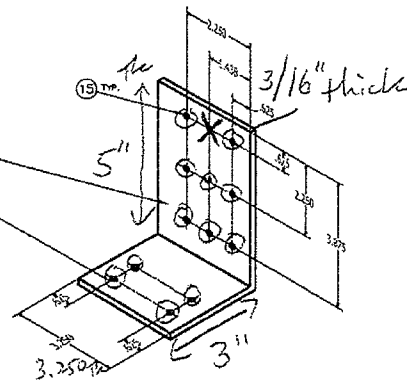
Drawings



FRAME CORNER ASSEMBLY - MILLED AND MECHANICALLY ASSEMBLED.

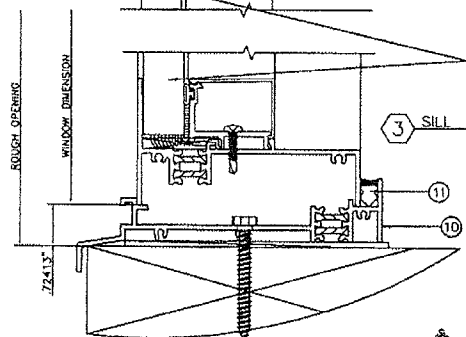


MTG RAIL

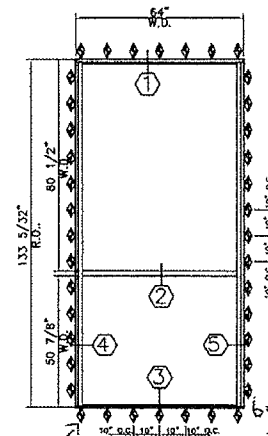


1708 Angle Anchor (Handed)

GLAZING UNIT DESCRIPTION
9/16" NOMINAL MONO UNIT
(1/4 H.S. x 0.090 PVB x 1/4 H.S.)



SILL

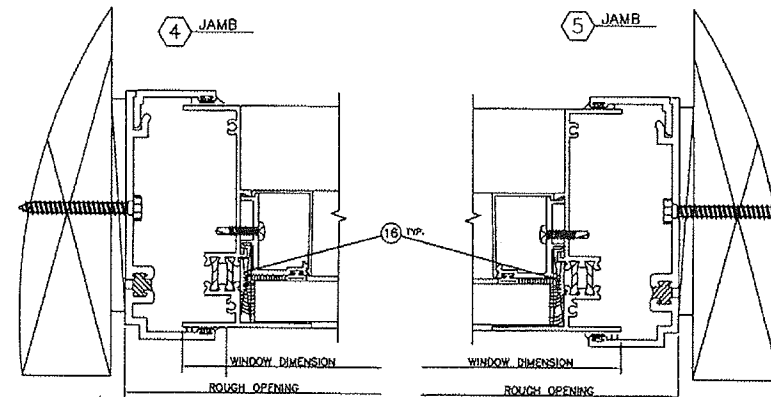


2" from corner at head & sill

6.5" from corner at jambs

ITEM	#	RECD	PART #	DESCRIPTION	MFG.
1	8		1F75	Frame	EFCO
2	3		1483	Subframe	EFCO
3	3		EN12	Subframe Closer	EFCO
4	As Req		WA04	Bulb Gasket	DRIVE
5	8		18P6	Glazing Bead Cover	EFCO
6	8		18P5	Glazing Bead	EFCO
7	As Req		STK0	#8-18 Tek Screw	
8	1		1F66	Trans Mullion	EFCO
9	8		STK1	#12-14 Tek Screw	
10	1		2356	Sill	EFCO
11	As Req		WNA1	Drive In gasket	Trimco
12	As Req		SLQ2	#8-18 x 1 SMS	
13	4		HN40	Setting Block	EPG
14	2		1708	Angle Anchor	EFCO
15	16		Screw	1/4" Wood Screw	
16	As Req		HN40	Side Blocks	EPG

ERECTOR NOTE:
TO INSURE A WATERIGHT SEAL (EXTERIOR),
BACK BED WITH SEALANT BEFORE THE
WINDOW IS INSTALLED, OR CAP SEAL AFTER
THE WINDOW IS INSTALLED.
TO INSURE A WATERIGHT SEAL (INTERIOR),
SET CLIP IN A BED OF SEALANT AND CAP
SEAL 6" MINIMUM UP EACH VERTICAL.



JAMB

JAMB

Architectural Testing

DRAWN BY SD CHECKED BY SCALE HALF REV. Test sample complies with these details. Deviations are noted.

EFCO CORPORATION
1000 County Road - Maren, Missouri 65708

S-6621

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REPORT# SHEET
##-####-### 1 of 1

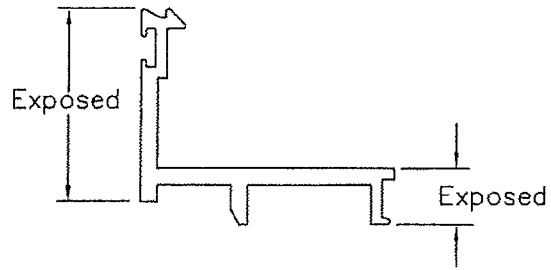
Report# A0035
Date 11/29/10 Tech flc

STD. EXTRUSION TOLERANCES AS DEFINED BY THE ALUMINUM ASSOCIATION UNLESS OTHERWISE STATED. CORNER RADII .015 EXCEPT AS NOTED.

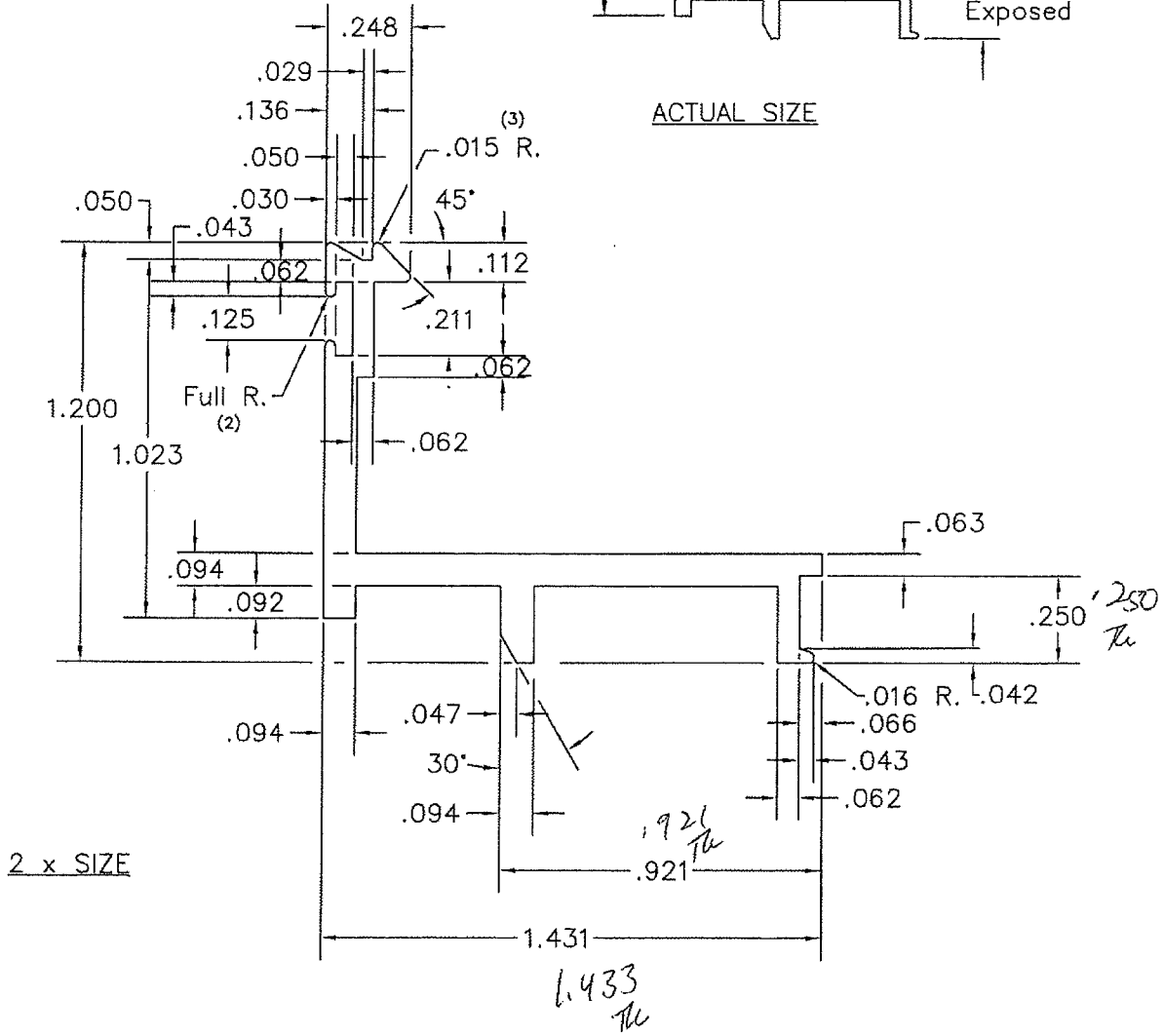


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Deviations are noted.

Report# A0035
Date 4/29/10 Tech TRH



ACTUAL SIZE



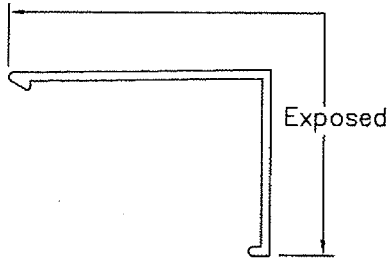
2 x SIZE

DO NOT SCALE PRINT

© 2007 EFCO CORPORATION ALL RIGHTS RESERVED

MATERIAL: 6063-T6 ALUM.	 EFCO CORPORATION 1000 County Road Monett, Missouri 65708 1-800-221-4169 Fax 417 225 7212	DRAWN BY: TRH	REVISIONS W/ DATES: Ⓐ Added Exposed Surface T.H. 10-14-08		
WALL THICKNESS: .094 & AS NOTED		DATE: 9-5-07	SCALE: AS NOTED DIE CIRCLE: 2"		
TOTAL PERIMETER: 6.515		APPROVED: TRH			
Painted PERIMETER: 1.813		DATE: 9-5-07			
AREA: .266		SERIES: 511/6621	TITLE: Glazing Stop		
WT/FT: .319			18P5 Rev A		
FACTOR: 20					

STD. EXTRUSION TOLERANCES AS DEFINED BY THE
ALUMINUM ASSOCIATION UNLESS OTHERWISE
STATED. CORNER RADII .015 EXCEPT AS NOTED.



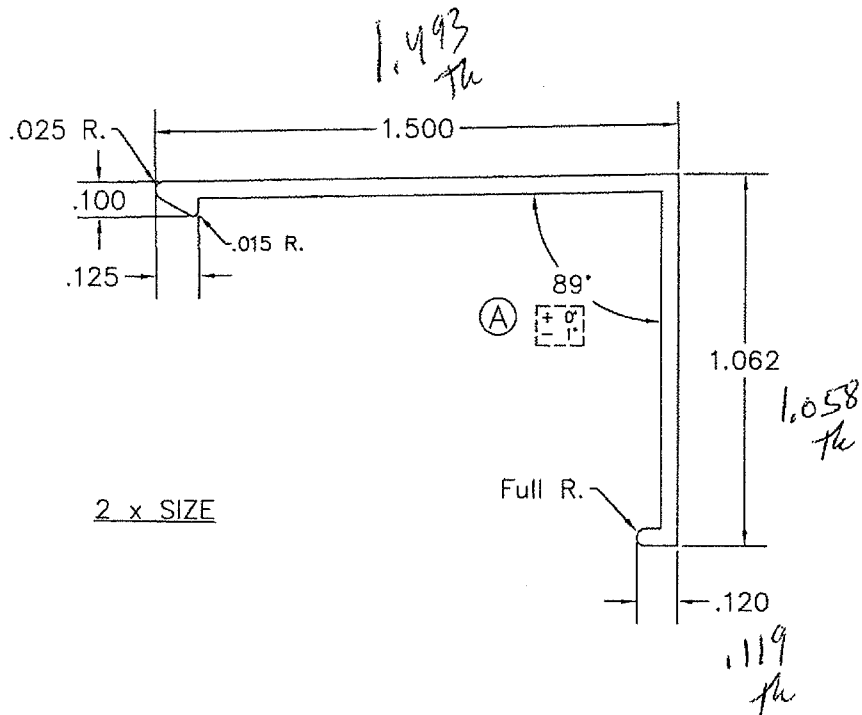
ACTUAL SIZE



Architectural Testing

Test sample complies with these details
Deviations are noted.

Report# A0035
Date 4/29/10 Tech TRH



DO NOT SCALE PRINT

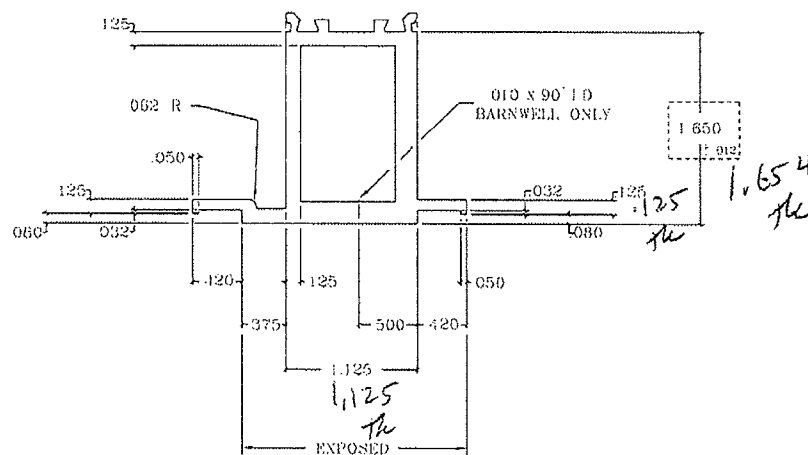
© 2007 EFCO CORPORATION ALL RIGHTS RESERVED

MATERIAL: 6063-T6 ALUM.	 EFCO EFCO CORPORATION 1000 County Road Monett, Missouri 65708 1-800-221-4169 Fax 417-335-2312	DRAWN BY: TRH	REVISIONS W/ DATES:	
WALL THICKNESS: .050 & AS NOTED		DATE: 9-5-07	① REVISED SHAPE TO 89° 10/31/07 SCC	
TOTAL PERIMETER: 5.278		APPROVED: TRH		
Painted PERIMETER: 2.562		DATE: 10-31-07		
AREA: .132		SERIES: 511/6621	SCALE: AS NOTED	DIE CIRCLE: 2"
WT/FT: .158		TITLE: Glazing Stop Cover		REV. 18P6
FACTOR: 33				①



Architectural Testing

Report# A0035
Date 4/29/10 Tech Th



Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and angles. The drawing includes a top view and a side view. Key dimensions include: overall width 241, overall height 086, top flange width 112, top flange thickness 012, side flange width 008 R, side flange thickness 012, bottom flange width 098, bottom flange thickness 106, bottom flange radius 020 R (3), bottom flange thickness 004, bottom flange width 055, bottom flange thickness 0042, bottom flange width 181, bottom flange thickness 092, and bottom flange width 034. Angles shown are 15°, 45°, 10°, 15°, and 5°.

I THUS I OPP

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MATERIAL 5063--TG ALUM		EFCO CORP.		1000 COUNTY ROAD	
WALL THICKNESS: 187 & AS NOTED				MONTELL, N.J. 65708	
PERIMETER 13.835		K BAKER		REVISOR: W/DAL	
AREA .953		DATE 01-22-01			
W1/F1 1:44		APPROVED			
FACTOR 12		DATE		SCALE AS NOTED	
JOB REF.# 0-7043-00		FILE		S-600 NO	
		HORIZ. STACK MULL		3637	

010 x 90° 1D MARK TO BE INCORPORATED
INTO DIE # EPCO BARNWELL ONLY EPCO
MONETT IS NOT TO HAVE 1D MARK

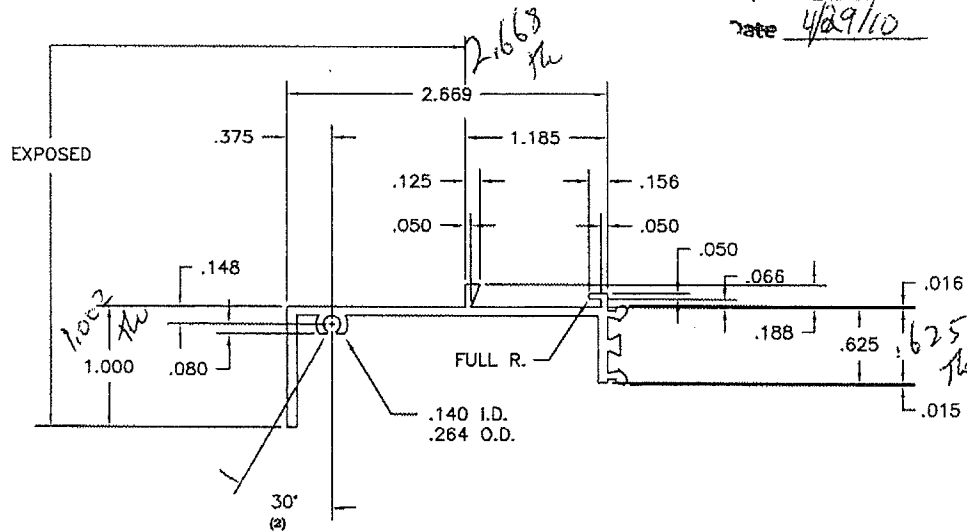


Architectural Testing

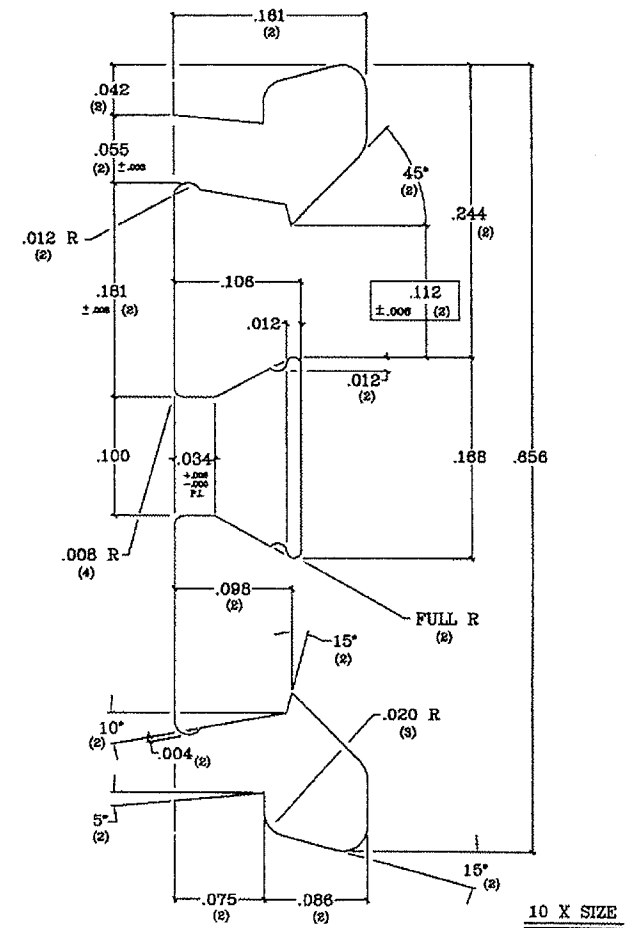
Test sample complies with these details
Deviations are noted.

Report# A0035

Date 4/29/10 Tech TL



ACTUAL SIZE



10 X SIZE

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MATERIAL: 6063-T6 ALUM.	
WALL THICKNESS: .078 & AS NOTED	
TOTAL PERIMETER: 11.024 @	
PAINTED PERIMETER: 2.672 @	
AREA: .410	WT/FT: .492
FACTOR: 22	

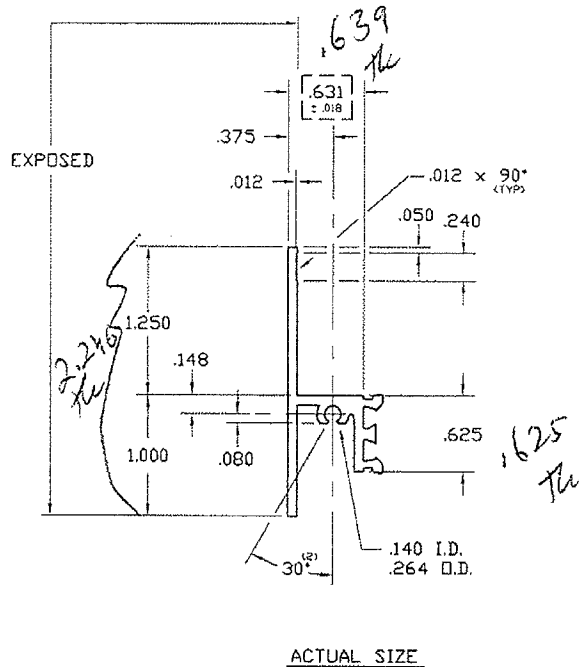


DRAWN BY: CSJ		REVISIONS W/ DATES:	
DATE: 4-29-08		A REDRAWN FOR CLARITY 4/29/08 CSJ	
APPROVED: KS		ORIGINAL DRAWN BY SOC 11-27-00	
DATE: 4-29-08		JOB REF. NO.:	
SERIES: 6620		SCALE: AS NOTED	DIE CIRCLE: 4"
TITLE: FRAME		DWG NO. 6462 @	

STD. EXTRUSION TOLERANCES AS DEFINED BY THE ALUMINUM ASSOCIATION UNLESS OTHERWISE STATED. CORNER RADII .015 EXCEPT AS NOTED.

DO NOT SCALE PRINT

STD. EXTRUSION TOLERANCES AS DEFINED BY THE
ALUMINUM ASSOCIATION UNLESS OTHERWISE
STATED. CORNER RADII .015 EXCEPT AS NOTED.



ACTUAL SIZE

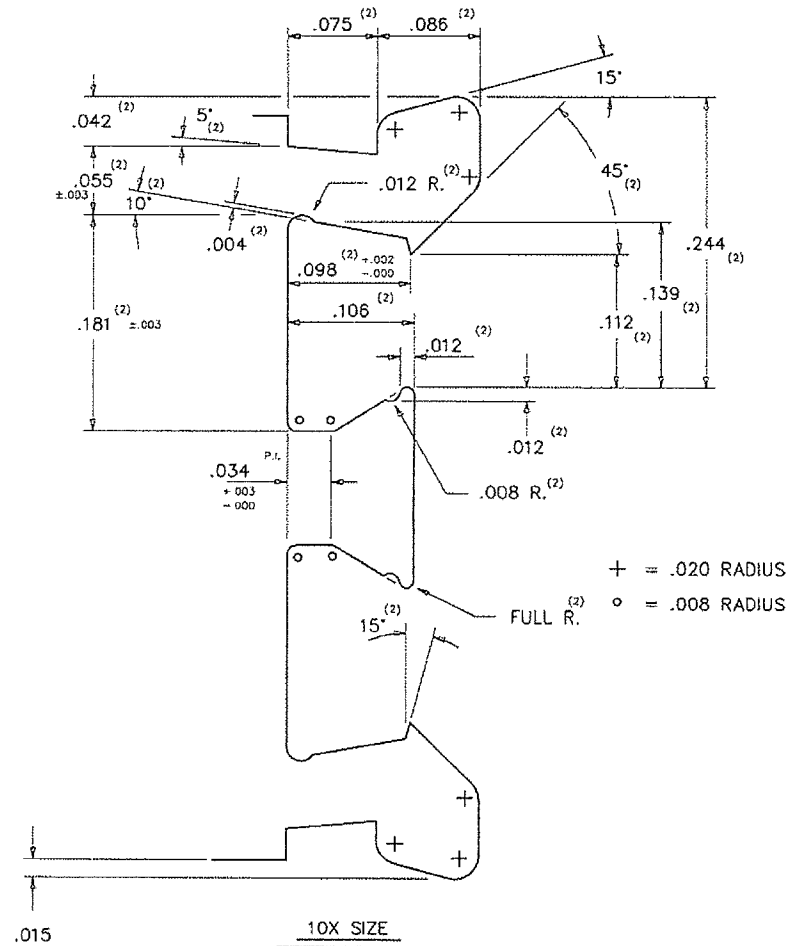


Architectural Testing

Test sample complies with these details
Deviations are noted.

Report# A0035
Date 4/29/10 Tech TL

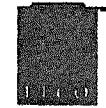
DO NOT SCALE PRINT



+ = .020 RADIUS
o = .008 RADIUS

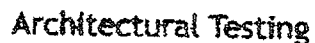
© 2006 EFCO CORPORATION ALL RIGHTS RESERVED

MATERIAL: 6063-T6 ALUM.		DRAWN BY: T.H.		REVISIONS #/ DATES:	
WALL THICKNESS: .078 & As Noted		DATE: 3-9-06			
TOTAL PERIMETER: 8.482		APPROVED: T.H.			
PAINTED PERIMETER: 2.328		DATE: 3-9-06			
AREA: .324	WT./FT.: .389	SERIES: 6621	SCALE: AS NOTED	DIE CIRCLE: 3"	
FACTOR: 22		TITLE: Fixed Frame		DWG NO: 14H1	



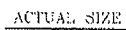
EFCO CORPORATION
1000 County Road
Monette, Missouri 65708
1-800-221-4169
Fax: 417-235-7313

3

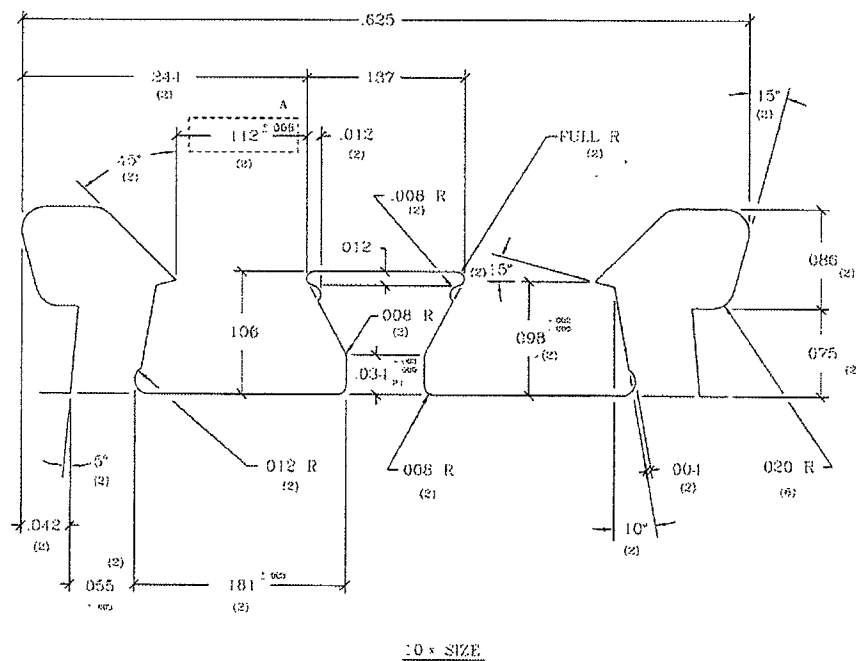


Report# A0035

Date 4/29/10 Tech Flc



3



MATERIAL	6063-T6 ALUM
WALL THICKNESS	0.078 & AS NOTED
PERIMETER	6.337
AREA	.233
WT/L	280

1000 COUNTRY ROAD
MONEE, MO 65708

RELEASING OFFICER
A ADDED BARNWELL ID NOTES & TOLERANCE M.W 12-16-68
H 594 WAS 650. M.W 5-18-69

	M W
DATE	3-18-97
APPROVED	

SCALE AS NOTED

DI. CIRCLE 2"

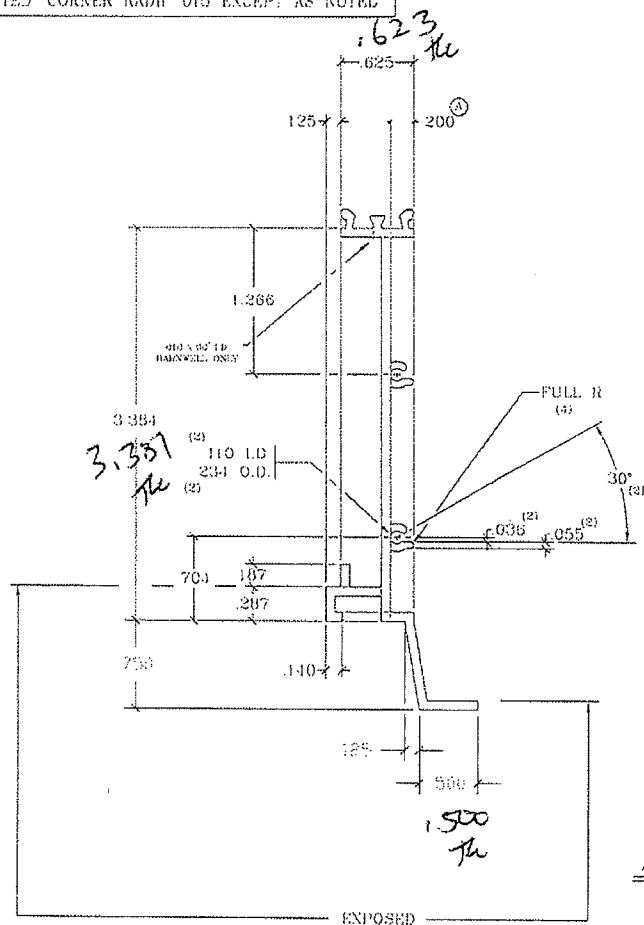
DO NOT SCALE PRINT

SUB SILL. INT.

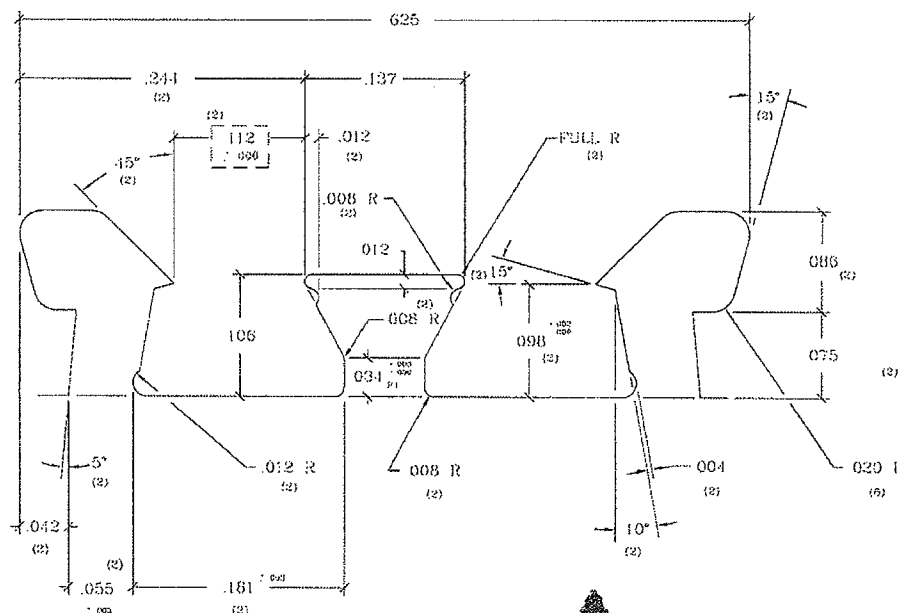
NO	2351 ^B
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STD EXTRUSION TOLERANCES AS DEFINED BY
THE ALUMINUM ASSOCIATION UNLESS OTHERWISE
STATED CORNER RADII .015 EXCEPT AS NOTED

Do Not Scale Print



ACTUAL SIZE



10 x Size



Architectural Testing

Test sample complies with these details
Deviations are noted.

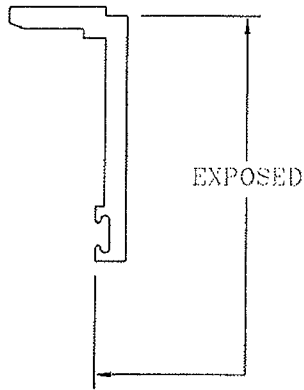
Report# 10035
Date 4/29/10 Tech TL

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MATERIAL 6063-T6 ALUM		EFCO CORP.		1000 COUNTY ROAD MORRISTOWN, NJ 07960	
WALL THICKNESS .078 & AS NOTED				REVISIONS W/DATES	
PERME HP	15 003	Drawn	Tim H	A ADDED 200 DIM. K.B. 1-28-02	
AREA	565	Date	1-8-02		
W/F 1	678	APPROVED	K B	SCALE AS NOTED	
FACTOR	22	DATE	1-28-02		
		TITLE			DIE CIRCLE: 5"
		SUB SILL EXT S-600			NO 4290 A
		SHEET 2129/2203			

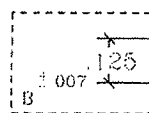
.010 x 90° I.D. MARK TO BE INCORPORATED
INTO DIE @ EFCO DARNWELL ONLY EFCO
MCNETT IS NOT TO HAVE I.D. MARK

STD. EXTRUSION TOLERANCES AS DEFINED BY
THE ALUMINUM ASSOCIATION UNLESS OTHERWISE
STATED CORNER RADI .015 EXCEPT AS NOTED



ACTUAL SIZE

.010 x 90° I.D.
BARNWELL ONLY
B



FULL R
(4)

2 x SIZE



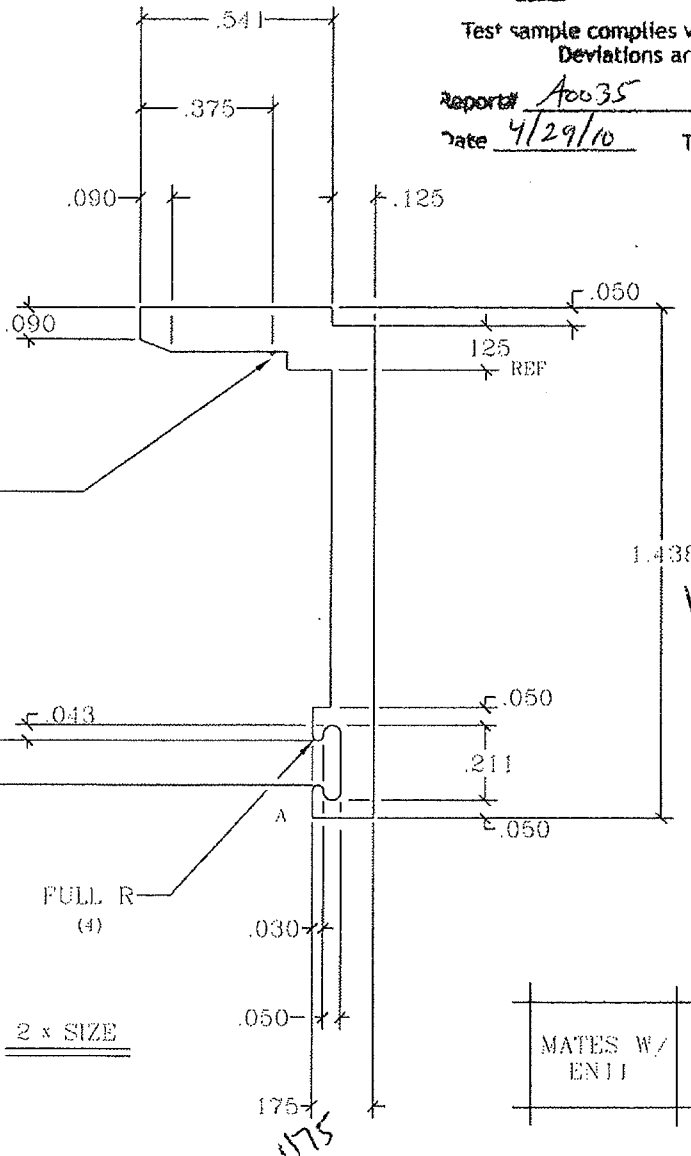
Architectural Testing

Test sample complies with these details
Deviations are noted.

Report# A0035

Date 4/29/10

Tech Jk



MATES W/
EN11

JOB REF. #3-3324

.010 x 90° I.D. MARK TO BE INCORPORATED
INTO DIE @ EFCO BARNWELL ONLY. EFCO
MONETT IS NOT TO HAVE I.D. MARK.

B

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MATERIAL: 6063-T6 ALUM.

WALL THICKNESS: .125 & AS NOTED

PERIMETER: 4.543

AREA: .247

WT/FT: .296

FACTOR 15

EFCO CORP.

1000 COUNTY ROAD
MONETT, MO. 65706

M.W.

DATE 1-26-99

APPROVED

DATE

REVISIONS W/DATES

A CHANGED WSTP. GROOVE M.W. 9-1-93

B ADDED BARNWELL I.D. NOTES & TOL. REDWN M.W. 1-26-99

ORIGINAL DWN BY MD.D. 10-22-84

SCALE: AS NOTED

DIE CIRCLE 2"

DO NOT SCALE PRINT

FILE

SB. FRM. CLOSURE

NO

EN12

STD. EXTRUSION TOLERANCES AS DEFINED BY THE ALUMINUM ASSOCIATION UNLESS OTHERWISE STATED. CORNER RADII .015 EXCEPT AS NOTED.

.010 x 90° I.D. MARK TO BE INCORPORATED INTO DIE @ EFCO BARNWELL ONLY EFCO MONETT IS NOT TO HAVE I.D. MARK

A

DO NOT SCALE PRINT



Architectural Testing

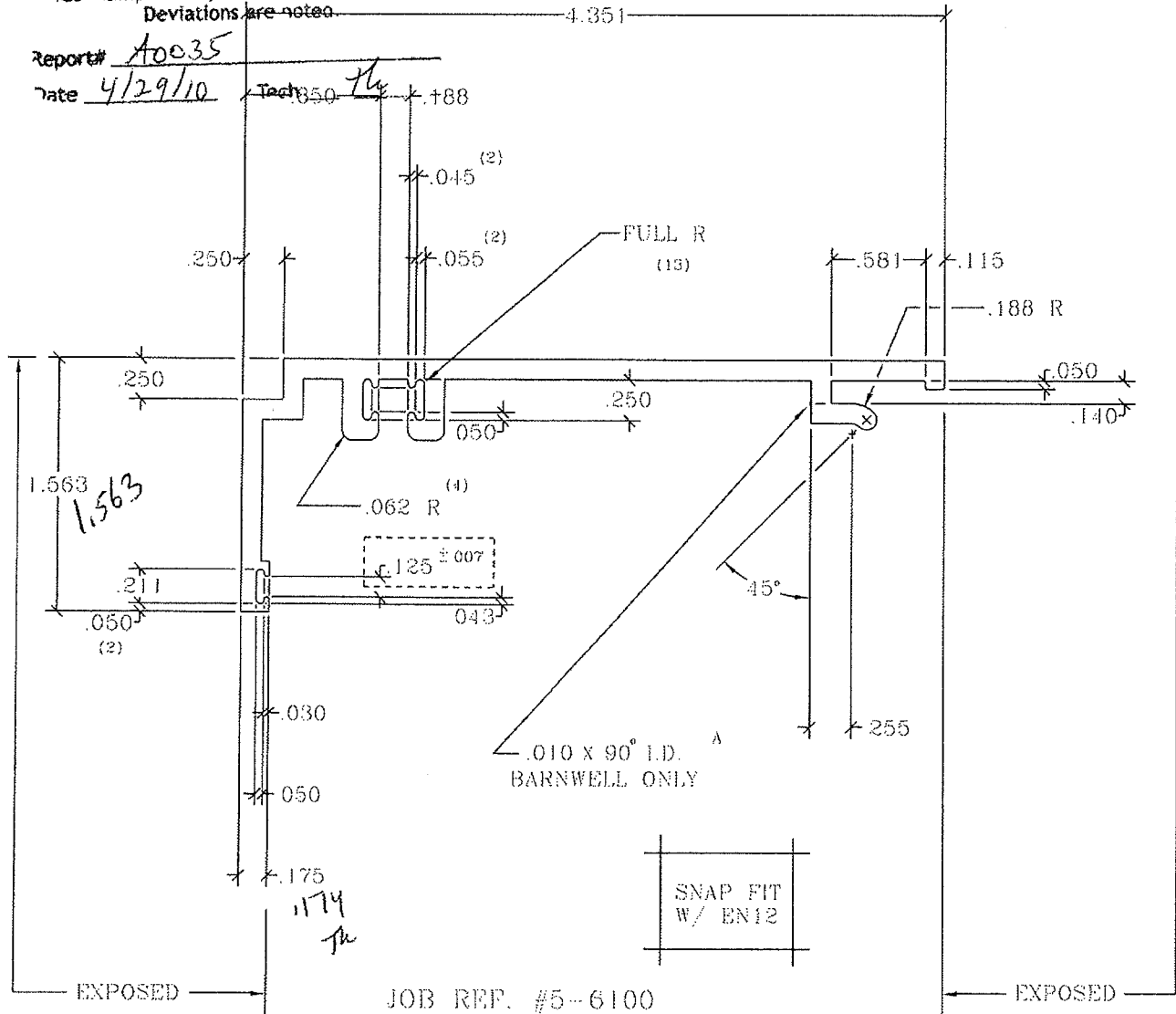
Test sample complies with these details
Deviations are noted.

Report# A0035

Date 4/29/10

Technician HL

4.356



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MATERIAL: 6063-T6 ALUM.

WALL THICKNESS: 125 & AS NOTED

EFCO CORP.

1000 COUNTY ROAD
MONETT, MO. 65708

PERIMETER: 15.372

DRAWN: MW

REVISIONS W/DATES

AREA: 924

DATE: 9-27-95

A ADDED BARNWELL I.D. NOTES & TOL. REDWN MW 3-25-99

WT/FT: 1.109

APPROVED:

FACTOR: 14

DATE:

SCALE: FULL

D/E CIRCLE: 5"

THERMAL CAVITY: 1.353

TITLE

SUBFRAME

NO

1483¹